

Special Issue

Recent Advances in Underwater Acoustics

Message from the Guest Editors

The ocean covers 70% of the Earth's surface and is a source of energy resources, yet a majority of the ocean remains unexplored. Underwater acoustic (UWA) communications, together with underwater sensor network and vehicular technology, are the key solutions to enable a wide range of applications such as environmental monitoring, acoustic event detection and habitat mapping. In this Special Issue, we focus on the recent advances in underwater acoustics including signal processing techniques as well as acoustic system design and applications. This includes, but is not limited to, the following:

- UWA communications (modem design, channel estimation, full-duplex UWA communication, etc);
- UWA channel modeling;
- UWA sensor networks (network protocols, network design);
- underwater navigation and localization;
- sonar (sonar signal processing, sonar applications);
- applications of machine learning in UWA systems;
- results from field experiments.

We look forward to receiving your original research articles, including review articles, to bring together contributions relevant to this research field and provide valuable insights for future research directions.

Guest Editors

Dr. Lu Shen

Dr. Yongchun Miao

Dr. Nils Morozs

Dr. Filippo Campagnaro

Deadline for manuscript submissions

15 November 2025



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/219441

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)



About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPus /
SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /
CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 16.8 days after
submission; acceptance to publication is undertaken in 2.4
days (median values for papers published in this journal in
the first half of 2025).